

Sealed Vision Sensors Deliver the Functionality of Advanced Vision and a Proven Interface into Harsh Environments.

The *PresencePIUS* P40MNI and COLOR OMNI are now available in an IP68-rated housing for machine vision inspections in challenging industrial and washdown environments. Designed to withstand demanding conditions, the new one-piece sealed P4models deliver the comprehensive suite of *PresencePIUS* inspection tools into environments that might normally challenge general vision products. The compact, robust sensor is suited for a wide variety of environments including automotive, assembly, food handling, printing, pharmaceutical and packaging.

- Sealed IP68 housing and connectors to withstand dust, moisture and washdown
- Compact and durable nickel-plated aluminum housing to tolerate shock and vibration
- A complete suite of location, inspection, analysis and geometric tools; all can be used simultaneously for inspecting multiple features and complex applications
- Premium tools for enhanced inspection capabilities; including Bar Code Reading (BCR), Optical Character Reading and Verification (OCR/ OCV), and Bead inspection
- Standard or high-resolution 1.3 megapixel gray scale, and color models for nearly any inspection challenge
- Proven user interface common to all PresencePIUS sensors
- Intuitive Wizard-like setup procedure and common graphical interface; supports nine languages
- ► Ethernet, serial, flexible discrete I/O and real-time video output in the same full-featured sensor
- ActiveX utilities for exporting inspections, images and results

Powerful Inspection Tools in a Compact, Robust Housing

The Sealed *PresencePIUS P4* solves thousands of applications in your plant.

- Label alignment inspection
- Color verification and matching
- Flaw detection
- 2Dand1D barcode reading
- Optical character reading and verification
- Packaging inspection
- Assembly verification
- Fill level detection
- Adhesive bead inspection
- Vial stopper inspection
- Drilled hole inspection
- Orientation verification
- Part or model identification
- Error proofing









40-plus years of sensor design experience, quality control, sales support and cost-effective solutions:

- Banner quality products with global availability
- Rapid customization with most products shipping in 3 days or less
- Industry's largest force of application engineers to solve your toughest challenges
- More than 3,000 factory and local field representatives to serve you

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more sensors, more solutions

PresencePIUS® P4 Sealed Vision Sensors, 10 to 30V dc

Models	Vision Tools	Housing	Resolution (pixels)
P4ORS	OMNI Gray Scale		640 x 480
P401.3RS	OMNI Gray Scale	Right-Angle	1280x1024
P4CORS	COLOR OMNI		752 x 480

	Add Premium Tool to Model (example, P4ORS-BCOC)
BC = B	ar Code Reader
OC = 0	CR/OCV
BD = B	ead
всос	= Bar Code Reader & OCR/OCV
BCBD :	= Bar Code Reader & Bead
BDOC	= Bead& OCR/OCV
BCBDC	OC = Bar Code Reader, Bead & OCR/OCV

Brackets

Mode	el*	Length
	P4SLC50-G P4SLC50-P	50 mm
	PPSLC75-G PPSLC75-P	75 mm



*G = Glass P = Plastic

Lens Covers

Quick-Disconnect (QD) Cordsets

Power Cordsets

Description		Model	Length
	Sealed 12-pin	MQDC2S-1206	2m
—	Euro-style QD	MQDC2S-1215	5 m
	(Female) to flying leads,	MQDC2S-1230	9m
	High-flex	MQDC2S-1250	16m

Ethernet Communication Cordsets

Description		Model	Length
	8-pin	STP-MAQDC-806	2m
••	Euro-style QD	STP-MAQDC-815	5 m
	(Male) to RJ45	STP-MAQDC -830	9m

Video Cordsets

Description		Model	Length
	4-pin	PKG4M-2/CS	
	Pico-style QD	PKG4M-5/CS	5 m
	(Female) to BNC	PKG4M-9/CS	9m

Lighting Cordsets (Double-Ended)

Description	_	Model	Length
	3-pin	PKG3M-35-PSG3M	350 mm
	Pico-style QD (Male/Female)	PKG3M-2-PSG3M	2m

Lighting Cordsets (Splitter)

Model	Branches	Irunk
CSB-UNT213M831F1241	Branch 1 3-pin Pico-style (Male) 0.3 m Branch 2 5-pin Euro-style (Female) 0.3 m	Flying Leads 4 m

Dimensions



NOTE: Dimensions do not include optional lens cover. Lens covers available in 50 and 75 mm lengths.

P4 OMNI Tools

Gray Scale Tools



Average Gray Scale.

Determines the average gray scale value of an area



Blob. Determines the presence, connectivity and location of selected features



Edge. Determines the presence, number, classification and location of edges



GEO Count. Detects the presence and location of target pattern in any orientation



Object. Determines the presence, number, classification, size and location of objects



Pattern Count. Determines the presence, number and location of a pattern(s)

Color Tools



Color Match. Inspects for matching hue and intensity



Average Color. Tests or communicates color content values sensed in a selected area



Color Blob. Determines the presence, connectivity, size and location of selected features with one or more colors

Premium Tools



Bar Code. Finds, decodes and grades 2D and 1D linear bar codes



Bead Tool. Monitors a track of material for width consistency and location



OCR/OCV. Reads and verifies optical characters

A choice of lighting

- A complete selection of lighting, including IP68-rated lights
- Rugged, maintenance-free LED lighting in red, green, blue, white and infrared
- High-intensity lighting with built-in universal strobe control and power regulations; no external controller or power supply required





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